

FORM PTO-1449
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
33314

APPLICATION NO.

APPLICANT
WINDISCH ET AL.
FILING DATE
FEBRUARY 13, 2006

Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
AA	5,710,027	1/20/98	Hauptmann et, al			
AB	2003/0026805	2/6/03	Althwal et.al.			
AC	5,648,237	7/15/97	Paul J. Carter			
AD	4,680,262	7/14/87	Bochner et, al.			
AE	2004/151695	8/5/04	Kwon et al.			
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
AM	WO 89/00201	1/12/89	University of Dundee			<input type="checkbox"/> <input type="checkbox"/>
AN	WO 03/004599	1/16/03	Insight strategy & Mkt Ltd			<input type="checkbox"/> <input type="checkbox"/>
AO	EP 0 974 654	1/26/00	Mitsui Chemicals Inc			<input type="checkbox"/> <input type="checkbox"/>
AP	WO 01/57217	8/9/01	Choi Ki Doo et al.			<input type="checkbox"/> <input type="checkbox"/>
AQ						<input type="checkbox"/> <input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

AR	BOURDINEAUD J P ET AL: "Cytoplasmic and Periplasmic Expression of a Synthetic gene for Ferredoxin in Escherichia-coli", Biochimie (Paris), v1.72, no. 6-7, 1990, pages 407-415, XP002316190
AS	WEICKERT M J ET, AL: "Optimization of Heterologous Protein Production in Escherichia Coli", Current opinion in Biotechnology. London, GB, Vol. 7, no. 5, 1996, pages 494-499, XP000995157
AT	HUMPHREYS D P ET AL: "High- LEVEL Periplasmic Expression in Escherichia coli Using a Eukaryotic Signal Peptide: Importance of Codon usage at the 5' end of the coding sequence" Protein expression and purification academic press, San Diego, CA, US, Vol. 20, no.2, November 2000, pgs

EXAMINER /Sandra Wegerl/ DATE CONSIDERED 08/11/2008

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SLW/

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DA	MATSUDA A ET AL." Molecular Cloning and Structure of the Gene for 7-beta-4 Carboxybutanamidocephalosporanic-acid acylase from a pseudomonas strain", Journal of Bacteriology, vol. 163, no. 3, 1985, pages 1222-1228, XP002316191
DB	FRENCH C ET AL." Development of a simple method for the recovery of recombinant proteins from the escherichia coli periplasm" Enzyme and Microbial Technology, Stoneham, MA, US, Vol. 19, no. 5, 1996, pages 332-338, XP000886796
DC	DALMORA S ET AL: "Analysis of recombinant human growth hormone directly in osmotic chick fluids" Journal of Chromatography A, Elsevier Science, NL., Vol.s 782, no. 2, 10 October 1997, pages 199-210, XP004096275
DD	ANDERSON D C ET AL: " Production technologies for monoclonal antibodies and their fragments", Current opinion in Biotechnology, Vol 15, No. 5, October 2004, Pages 456-462
DE	DE OLIVEIRA J E ET AL: " High-yield purification of biosynthetic human growth hormone secreted in Escherichia coli periplasmic space" Journal of Chromatography A, Elsevier Science, NL. Vol. 852, no.2 13, Aug 1999, pgs 441-450
DF	HANNIG G ET AL: "Strategies for optimizing heterologous protein expression in Escherichia coli", Trends in Biotechnology, Vol. 16, no. 2, February 1998, pages 54-60, XP004107042
DG	MIDDLEBERG A P J: "Process-scale disruption of microorganisms" Biotechnology Advances, Vol. 13, no.3 1995, pages 491-551, XP004045404
DH	BANEYX F: Recombinant protein expression in Escherichia coli" current opinion in Biotechnology, vol 10, no. 5, October 1999, pgs 411-421, XP001041299
DI	HART R A ET AL: "Large scale, in situ isolation of periplasmic IGF-I from E. Coli", Bio Technology, Vol. 12, November 1994, pages 1113-1117, XP001153305
DJ	
DK	
DL	
DM	
DN	

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/Sandra Wegert/

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08/11/2008

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